OCT 1 2018

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Phoenix 4625 East Cotton Ctr Blvd Suite 189 Phoenix, AZ 85040 Tel: (602)437-3340

TestAmerica Job ID: 550-110516-1

Client Project/Site: First Mesa Consolidated Villages (51485)

For:

Mohave Environmental Laboratory 2580 Landon Dr Suite A Bullhead City, Arizona 86429

Attn: Sheila Poff

Authorized for release by: 10/8/2018 7:58:21 PM

Mary Hamilton, Project Manager I (602)437-3340

mary.hamilton@testamericainc.com

Links

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Have a Question?



Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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#### **Definitions/Glossary**

Client: Mohave Environmental Laboratory

Project/Site: First Mesa Consolidated Villages (51485)

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 550-110516-1

#### Glossary

TEF

TEQ

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |                    |
|----------------|---|--------------------|
| n              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |                    |
| %R             | Percent Recovery  |                    |
| CFL            | Contains Free Liquid  |                    |
| CNF            | Contains No Free Liquid   |                    |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |                    |
| Dil Fac        | Dilution Factor   | 8                  |
| DL             | Detection Limit (DoD/DOE)   |                    |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |                    |
| DLC            | Decision Level Concentration (Radiochemistry)   |                    |
| EDL            | Estimated Detection Limit (Dioxin)  |                    |
| LOD            | Limit of Detection (DoD/DOE)  |                    |
| LOQ            | Limit of Quantitation (DoD/DOE)   |                    |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |                    |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |                    |
| MDL            | Method Detection Limit  |                    |
| ML             | Minimum Level (Dioxin)  |                    |
| NC             | Not Calculated  |                    |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |                    |
| PQL            | Practical Quantitation Limit  |                    |
| QC             | Quality Control   | Į.                 |
| RER            | Relative Error Ratio (Radiochemistry)   | $\tilde{\psi}^{*}$ |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |                    |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |                    |

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#### **Case Narrative**

Client: Mohave Environmental Laboratory

Project/Site: First Mesa Consolidated Villages (51485)

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Job ID: 550-110516-1

Laboratory: TestAmerica Phoenix

Narrative

Job Narrative 550-110516-1

Comments

No additional comments.

Receipt

The sample was received on 9/27/2018 9:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 23.0° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica Phoenix 10/8/2018

TestAmerica Job ID: 550-110516-1

## Sample Summary

Client: Mohave Environmental Laboratory
Project/Site: First Mesa Consolidated Villages (51485)

TestAmerica Job ID: 550-110516-1

| Lab Sample ID | Client Sample ID                              | Matrix         | Collected      | Received       |
|---------------|---|----------------|----------------|----------------|
| 550-110516-1  | EP002/East Well (Well #8)090400106 (51485-01) | Drinking Water | 09/25/18 09:32 | 09/27/18 09:30 |

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### **Detection Summary**

Client: Mohave Environmental Laboratory Project/Site: First Mesa Consolidated Villages (51485) TestAmerica Job ID: 550-110516-1

Client Sample ID: EP002/East Well (Well #8)090400106 (51485-01)

Lab Sample ID: 550-110516-1

| Analyte | Result | Qualifier | RL     | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|------|---------|---|--------|-----------|
| Arsenic | 0.021  |           | 0.0010 | mg/L | 1       |   | 200.8  | Total/NA  |







This Detection Summary does not include radiochemical test results.

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#### **Client Sample Results**

Client: Mohave Environmental Laboratory

Project/Site: First Mesa Consolidated Villages (51485)

Lab Sample ID: 550-110516-1

TestAmerica Job ID: 550-110516-1

Client Sample ID: EP002/East Well (Well #8)090400106

(51485-01)

Date Collected: 09/25/18 09:32 Date Received: 09/27/18 09:30

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

| Analyte | Result | Qualifier                               | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac | 1 |
|---------|--------|---|--------|------|---|----------------|----------------|---------|---|
| Arsenic | 0.021  | *************************************** | 0.0010 | mg/L |   | 10/02/18 18:41 | 10/06/18 21:08 | 1       | 3 |









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#### QC Sample Results

Client: Mohave Environmental Laboratory

Project/Site: First Mesa Consolidated Villages (51485)

TestAmerica Job ID: 550-110516-1

Client Sample ID: Method Blank

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 550-158219/1-A

Matrix: Water

Analysis Batch: 158638

MB MB

< 0.0010

Result Qualifier Analyte

RL 0.0010 Unit mg/L Prepared

Analyzed

Dil Fac 10/02/18 18:41 10/06/18 20:55

Prep Type: Total/NA

Prep Batch: 158219

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 158219

Prep Type: Total/NA

Prep Batch: 158219

Lab Sample ID: LCS 550-158219/3-A

Matrix: Water

Arsenic

Analyte

Arsenic

Analyte

Arsenic

Arsenic

Arsenic

Analysis Batch: 158638

LCS LCS 0.0936

Result Qualifier

Unit %Rec mg/L 94 %Rec.

Client Sample ID: Matrix Spike

Limits 85 - 115

Client Sample ID: Lab Control Sample

Lab Sample ID: LCSD 550-158219/4-A

Matrix: Water

Analysis Batch: 158638

Spike Added

0.100

Spike

Added

0.100

LCSD LCSD Result Qualifier

0.0944

Unit mg/L

Prep Batch: 158219 %Rec. Limits

94

Client Sample ID: Lab Control Sample Dup

RPD RPD Limit 85 - 115

20

Lab Sample ID: 550-110515-A-1-B MS

Matrix: Water

Analysis Batch: 158638

Sample Sample Analyte

Result Qualifier 0.017

Spike Added 0.100

MS MS Result Qualifier 0.113

Unit %Rec mg/L

%Rec. Limits 70 - 130 96

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 158219 RPD

%Rec. Limits

RPD Limit

Lab Sample ID: 550-110515-A-1-C MSD

Matrix: Water

Analysis Batch: 158638

Analyte

Sample Sample Result Qualifier 0.017

Spike Added 0.100

MSD MSD Result Qualifier 0.114

Unit mg/L

%Rec 97

70 - 130

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## **QC Association Summary**

Client: Mohave Environmental Laboratory

Project/Site: First Mesa Consolidated Villages (51485)

TestAmerica Job ID: 550-110516-1

#### Metals

Prep Batch: 158219

| Lab Sample ID        | Client Sample ID                              | Prep Type | Matrix         | Method | Prep Batch                              |
|----------------------|---|-----------|----------------|--------|---|
| 550-110516-1         | EP002/East Well (Well #8)090400106 (51485-01) | Total/NA  | Drinking Water | 200.8  | *************************************** |
| MB 550-158219/1-A    | Method Blank                                  | Total/NA  | Water          | 200.8  |   |
| LCS 550-158219/3-A   | Lab Control Sample                            | Total/NA  | Water          | 200.8  |   |
| LCSD 550-158219/4-A  | Lab Control Sample Dup                        | Total/NA  | Water          | 200.8  |   |
| 550-110515-A-1-B MS  | Matrix Spike                                  | Total/NA  | Water          | 200.8  |   |
| 550-110515-A-1-C MSD | Matrix Spike Duplicate                        | Total/NA  | Water          | 200.8  |   |

#### Analysis Batch: 158638

| Lab Sample ID        | Client Sample ID                              | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|---|-----------|----------------|--------|------------|
| 550-110516-1         | EP002/East Well (Well #8)090400106 (51485-01) | Total/NA  | Drinking Water | 200.8  | 158219     |
| MB 550-158219/1-A    | Method Blank                                  | Total/NA  | Water          | 200.8  | 158219     |
| LCS 550-158219/3-A   | Lab Control Sample                            | Total/NA  | Water          | 200.8  | 158219     |
| LCSD 550-158219/4-A  | Lab Control Sample Dup                        | Total/NA  | Water          | 200.8  | 158219     |
| 550-110515-A-1-B MS  | Matrix Spike                                  | Total/NA  | Water          | 200.8  | 158219     |
| 550-110515-A-1-C MSD | Matrix Spike Duplicate                        | Total/NA  | Water          | 200.8  | 158219     |

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#### Lab Chronicle

Client: Mohave Environmental Laboratory

Project/Site: First Mesa Consolidated Villages (51485)

TestAmerica Job ID: 550-110516-1

Lab Sample ID: 550-110516-1

Client Sample ID: EP002/East Well (Well #8)090400106

(51485-01)

Date Collected: 09/25/18 09:32 Date Received: 09/27/18 09:30 Matrix: Drinking Water

|           | Batch    | Batch  |   | Dilution                                | Batch  | Prepared       |         |         |
|-----------|----------|--------|---|---|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run                                     | Factor                                  | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 200.8  | *************************************** | *************************************** | 158219 | 10/02/18 18:41 | SRA     | TAL PHX |
| Total/NA  | Analysis | 200.8  |   | 1                                       | 158638 | 10/06/18 21:08 | TEK     | TAL PHX |

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

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## **Accreditation/Certification Summary**

Client: Mohave Environmental Laboratory

Project/Site: First Mesa Consolidated Villages (51485)

TestAmerica Job ID: 550-110516-1

#### Laboratory: TestAmerica Phoenix

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority                                     | Program     |                       | EPA Region                | Identification Numl    | ber Expiration Date                      |
|---|-------------|-----------------------|---------------------------|------------------------|--|
| Arizona                                       | State Prog  | jram .                | 9                         | AZ0728                 | 06-09-19                                 |
| The following analytes the agency does not do |             | t, but the laboratory | r is not certified by the | e governing authority. | This list may include analytes for whic  |
| Analysis Method                               | Prep Method | Matrix                | Analyt                    | e                      |  |
| Nevada  | State Prog  | gram                  | 9                         | AZ01030                | 07-31-19                                 |
| The following analytes the agency does not do |             | t, but the laboratory | is not certified by the   | e governing authority. | This list may include analytes for which |
|   |             | Matrix                | Analyt                    |                        |  |

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### **Method Summary**

Client: Mohave Environmental Laboratory Project/Site: First Mesa Consolidated Villages (51485) TestAmerica Job ID: 550-110516-1

| *** ** |                           |          |            |
|--------|---------------------------|----------|------------|
| Method | Method Description        | Protocol | Laboratory |
| 200.8  | Metals (ICP/MS)           | <br>EPA  |            |
| 200.8  | Preparation, Total Metals | EPA      | TAL PHX    |

#### Protocol References:

EPA = US Environmental Protection Agency

#### Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

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| Project Manager  | 2   | Sheila Poff  | Phone Number   |   | (928) 754-8101   |  |  | ecopadago ce   |  |  |
|  |   |  | Email          | sheila@irrohavelabs.com   | relabs.com   | ***************************************  | **********   | ***********  |  |  |
| Sample: C. Quavehema   |   |  | Fax Number     |   | (928) 754-8103   |  |  |  |  |  |
| Sample Description   | Sample<br>Matrix  | Containe: Type   | # of<br>Cant   | Sampling Date/Time  | Preservation   | As 200.8   |  |  |  | Special Instructions   |
| EP002/East Well (Well #8)090400106   | Clay  | Q  |                | 9/25/18 9:32 AM   | hn03   | ×  |  |  |  | 51485-01   |
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|  | (   |  |                |   |  |  |  |  | 48 Hours   | Normal /   |
| Relinquished By  | -   | Date/Time:   |                | Received in Lab by  |  | K.   |  | 09%  | Sample Integrity:  | ~  |
| Note: By relinquishing samples to Test America, client agrees to pay for the services requested on this chain of clistody form and any additional ana<br>Payment for services is due within 30 days from the date of involce. Sample(s) will be disposed of after 30 days.   | America, ci   | lient agrees to pay<br>a data of involce, S  | for the ser    | vices requested on m  | is chain of clisto:<br>ir 30 daws.   | ly form a  | nd any additional  | analyses perion  | lyses performed on this project.   | 0714   |

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#### **Login Sample Receipt Checklist**

Client: Mohave Environmental Laboratory

Job Number: 550-110516-1

Login Number: 110516

List Source: TestAmerica Phoenix

List Number: 1 Creator: Maycock, Lisa

| Question   | Answer | Comment                            |
|--|--------|------------------------------------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True   |                                    |
| The cooler's custody seal, if present, is intact.  | True   |                                    |
| Sample custody seals, if present, are intact.  | True   |                                    |
| The cooler or samples do not appear to have been compromised or tampered with.                             | True   |                                    |
| Samples were received on ice.  | False  | Thermal preservation not required. |
| Cooler Temperature is acceptable.  | True   |                                    |
| Cooler Temperature is recorded.  | True   |                                    |
| COC is present.  | True   |                                    |
| COC is filled out in ink and legible.  | True   |                                    |
| COC is filled out with all pertinent information.  | True   |                                    |
| Is the Field Sampler's name present on COC?  | True   |                                    |
| There are no discrepancies between the containers received and the COC.                                    | True   |                                    |
| Samples are received within Holding Time (excluding tests with immediate HTs)                              | True   |                                    |
| Sample containers have legible labels.   | True   |                                    |
| Containers are not broken or leaking.  | True   |                                    |
| Sample collection date/times are provided.   | True   |                                    |
| Appropriate sample containers are used.  | True   |                                    |
| Sample bottles are completely filled.  | True   |                                    |
| Sample Preservation Verified.  | True   |                                    |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                           | True   |                                    |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                            | True   |                                    |
| Multiphasic samples are not present.   | True   |                                    |
| Samples do not require splitting or compositing.   | True   |                                    |
| Residual Chlorine Checked.   | N/A    |                                    |